	//C 1 11 E 1
	nent/Subassembly Failures
401	Absorber (CO2)
548	Accumulator
402	Actuator
431	Adapter
552	Air cleaner
549	Air pump assembly
403	Alarm
404	Alarm, assembly
405	Alarm, audible
407	Alarm, high inspiratory
400	pressure
408	Alarm, LED
409	Alarm, low inspiratory
44.0	pressure
410	Alarm, oxygen pressure
411	Alarm, power
412	Alarm, pressure
550	Alarm, self
413	Alarm, visual
414	Alarm, volume
590	Alternator
591	Altimeter
592	Amplifier
593	Analyzer
594	Annunciator
595	Antenna
596	Arrester
597	Attenuator
598	Backpanel
599	Backplane
417	Bacterial filter
730	Baffle
553	Bags
418	Ball
731	Ballast
419	Balloon
732	Barrier
420	Battery
733	Beam splitter
734	Bearings
735	Bell
737	Belt
738	Blower
739	Bobbin
740	Bolometer
741	Bolt
554	Bottom dead center sensor
	bracket
742	Brake
422	Breathing circuit
743	Brush
745	Bus

Comp	onent/Subassembly Failures
746	Bushing
736	Buzzer
423	Cable
747	Calibrator
748	Camera
749	Cannula, inner
750	
424	Cannula, outer
751	Capacitar
555	Capacitor Capacitor (ceramic chip)
752	Carrier Capacitor (ceramic chip)
556	Cascade
425	Cassette
753	Caster
754	Cell
426	Charger
755	Chassis
756	Choke
427	Circuit board
757	Clamp
758	Clip
759	Clock
428	CO2 monitor
429	CO2 monitor subassembly
	(only use when part of
	another device)
760	Coder
761	Coil
762	Collimator
763	Comparator
557	Compressor (air pump)
558	Concentrator
559	Conductor coil
560	Connecting rod
435	Connector
764	Contact lens
436	Control switches
765	Controller
766	Converter
767	Cooling module
768	Cord
769	Core
770	Counter
771	Coupler
772	Cover
437	CPU (central processing
	unit) board
561	Crank arm assembly
438	CRT (cathode ray tube)
773	Crystal
562	Cuff
502	
	Cup seal
563 774	Cup seal Cups

Comp	onent/Subassembly Failures
775	Current limiter
776	Current source
439	Cusp
777	Cutter
440	Cylinder
441	Cylinder valve
778	Damper
779	Data acquisition unit
780	Decoder
442	Defibrillator paddles
443	Defibrillator subassembly
	(only use when part of
	another device)
781	Dehumidifier
782	Dehydrator
783	Delay line
784	Demagnetizer
785	Demodulator
786	Densitometer
787	Detector
788	Device deployer
789	Dial
445	Diaphragm
790	Digitizer
447	Diode
448	Discrete component/device
	(resistor, capacitor, diode)
791	Disk
416	Display
792	Divider
793	Dome
794	Doubler
795	Driver
796	Duct
797	Dummy load
798	Duplexer
450	EKG/ECG monitor
449	EKG/ECG subassembly
	(only use when part of
	another device)
452	Electrical lead
451	Electrode
799	Emitter
800	Enclosure
801	Encoder
802	Endoscope
454	EPROM (erasable
	programmable read only
	memory)
803	Equalizer
804	Evaporator
455	Exhalation filter
805	Expander
	<u> </u>

Compo	Component/Subassembly Failures	
806	Extender	
807	Extractor	
808	Eyelet	
456	Fail-safe system	
809	Fan	
810	Fastener	
811	Feedthru	
812	Ferrule	
813	FET (field effect transistor)	
814	Fiber	
815	Film	
816	Filter	
457	Flange	
817	Flasher	
458	Flowmeter	
818	Foil	
819	Foot pedal	
459	Foot switch	
820	Frame	
460	Function indicator	
564	Function lid	
821	Furnace	
822	Fuse	
461	Gas scavenging	
823	Gasket	
462	Gauges/meters	
824	Gear	
565	Gears	
825	Generator	
826	Grille	
827	Grommet	
828	Ground strap	
829	Guide	
463	Guidewire	
830	Handset	
464	Header	
831	Headphone	
832	Heads	
833	Headset	
465	Heart valve cage	
466	Heart valve leaflet	
834	Heart valve sewing ring	
835	Heat exchanger	
836	Heat sink	
467	Heater	
566	Heater rod	
567	Helifix coil	
837	Hinge	
838	Holder	
468	Hollow fiber	
839	Housing	
469	Hub	
407	1140	

Compo	onent/Subassembly Failures
470	Humidifier
471	Hybrid circuit
474	IC (integrated circuit)
472	IC (integrated circuit) chip
840	Igniter Igniter
841	Imager
842	
843	Impedance converter Indexer
844	Indicator
845	
	Inductor
473	Insulation
846	Integrator
847	Intercom
569	Interconnection board
0.40	intubate
848	Interface
849	Interrupter
850	Inverter
851	IOL (intraocular lens)
053	implant
852	Isolator
853	Jack
854	Joint
855	Joystick
856	Jumper
857	Junction
475	Keyboard
858	Keyer
859	Keypad
860	Kit
861	Knob
862	Label
863	Laminate
864	Lamp
865	Laser
476	Lead conductor
477	LED (light emitting diode)
866	Lenses
478	Limit switch
867	Limiter
868	Line conditioner
570	Line cord
479	Lithium iodide battery
869	Load
870	Lock
571	Locking sleeve
480	Logic board
572	Lower piston bearing
481	Luer valve
871	Magazine
482	Magnet
872	Magnetizer
873	Magnetometer

Comp	onent/Subassembly Failures
874	Magnetoresistor
875	Magnifier
483	Manifold
876	Matrices
484	Membrane
877	Memory
878	Meter
573	Meter needle
879	Microcircuit
880	Microphone
881	Microscope
882	Mirror
883	Mixer
884	Modem
885	Modulator
886	Monitor
485	Mother board
486	Motor
574	Motor roll pin
887	Mount
888	Multiplier
889	Nebulizer (only use when
	part of another device)
890	Network
1023	None
891	Nuts
487	O2 monitor subassembly
	(only use when part of
	another device)
892	O2 sensor
488	Obturator
894	Optical cable
893	Optical disk
546	Optical fiber
895	Optocoupler
896	Oscillator
897	Oscilloscope
400	Other (code unspecified,
	describe in H10)
898	Outlet
899	Oven
575	Overlay
489	Oximeter
490	Oximeter (only use when
	part of another device)
491	Oxygen analyzer
900	Pad
901	Panel
492	PC (printed circuit) board
902	Photodetector
903	Photomultiplier
904	Phototransistor
905	Pickup
905	

Compo	nent/Subassembly Failures
493	Pilot balloon valve
906	Pin
576	Piston guides
577	Piston heads
578	Piston Pads
494	Pivot
907	Plate
908	Plotter
579	Plug
910	Pointer
911	Polarizer
495	Port
912	Post
496	Potentiometer
497	Power cord
580	Power lamp
913	Power module
498	Power supply
499	Power switch
914	Preamplifier
915	Prescaler
916	Preselector
500	Pressure sensor
581	Pressure signal
501	Pressure tubing
917	Printer
918	Probe
919	Processor
920	Programmer
503	PROM (programmable read
303	only memory)
504	Prong
921	Protector
922	Proximity switch
923	Pulley
924	Pulser
925	Pump
926	Pyrometer
927	Rail
505	RAM (random access
	memory)
928	Reactor
929	Reader
930	Receiver
507	Recorder (tape, stripchart,
	etc.)
931	Rectifier
582	Reed (electrically open)
932	Regulator
508	Relay
933	Repeater
934	Reservoir
935	Resistor

	onent/Subassembly Failures
936	Resolver
937	Resonator
938	Retainer
583	Retaining pin
939	Reticle
940	RFI (radio-frequency
	interference)
941	Rheostat
942	Ribbon
943	Ring
944	Rivet
945	Robot
946	Rod
509	ROM (read only memory)
947	Safety interlock
984	SAW (surface acoustic
704	wave device)
949	Scale
949	
948	Scaler
	Scanner
951	Scintillometer
952	Scrambler
953	Screen
568	Screw
954	Scriber
432	Seal
584	Seal tracheal
510	Sensor
551	Servo
955	Shaft
956	Shield
957	Shift register
958	Shifter
959	Shunt
960	Shutter
961	Signal conditioner
962	Simulator
963	Slide
964	Slip ring
965	Slotter line
967	Socket
966	Socket adaptor
511	Solder joint
512	Solenoid
968	Sound absorber
969	Spacer
970	Spark gap
971	Speaker
972	Spectrometer
514	Spirometer
973	Splicer
974	Spooler
975	Spring
710	5P11115

Compon	ent/Subassembly Failures
976	Stabilizer
977	Stand
515	Stent
516	Stepper motor
978	Stiffener
517	Stopcock
979	Strain relief
980	
	Strip line
518 981	Stylet Substrate
	Sunlamp
982	•
983	Suppressor
519	Switches
985	Synchronizer
986	Synthesizer
987	Syringe
988	Table
989	Tachometer
990	Tape
991	Tee
520	Telemetry equipment
992	Telephone
1019	Washer
1020	Waveguide
1021	Window
430	Wire
993	Teleprinter
994	Teletypewriter
995	Television unit
996	Temperature compensator
997	Terminal
585	Terminal assembly
998	Terminator
999	Thermistor
1000	Thermocouple
547	Thermocouple wire
1001	Thermometer
1002	Thermostat
1003	Thyristor
1004	Timer
586	Tip conductor coil
1005	Trackball
1006	Transceiver
522	Transducer
523	Transformer
524	Transistor
1007	Translator
1008	Transmission line
1009	Transmitter
1010	Transponder
1011	Transport
1012	TRIAC
-	

	ent/Subassembly Failures
1013	Trimmer
525	Tube
587	Tube capillary
1014	Tuner
444	User interface
527	Valve
528	Valve (one-way, hemo,
	stopcock, etc.)
529	Valve, control
530	Valve, directional
589	Valve, dump
531	Valve, exhalation
532	Valve, flap
533	Valve, flow
534	Valve, inhalation
535	Valve, inlet port
536	Valve, inspiratory
537	Valve, outlet port
538	Valve, PEEP (positive end
	expiratory pressure)
539	Valve, pressure limit
540	Valve, relief
541	Valve, safety
542	Valve, selector
543	Vaporizer
1015	Varistor
588	VDT (video display
	terminal)
1016	Vibrator
1017	Viewer
1018	Voltmeter
544	Wiring harness
545	Y-piece connector
1022	Yoke
-	

Computer-, Imaging System-,	
Microprocessor-Controlled Device Problems	
617	Algorithm analysis
618	Algorithm problem
657	Bus conflicts
	Bus corruption
633	
653	Cache controller
652	Cache memory
635	Calculation error (pentium)
601	Central processing
	unit/operating system -
	error/design
643	Cold
628	Communication
663	Compression errors
603	Computer - user interface
602	Computer hardware
	problem
605	Computer software problem
616	Computer software problem
	- error/design
658	Conducted interference
626	Data corruption
631	Deadlock
647	Dirt
655	DMA controller (direct
055	`
646	memory access) Dust
664	
004	Electromagnetic interference
(40	
648	Electrostatic discharge
630	Glitch
642	Heat
645	Humidity
656	I/O (input/output) controller
627	I/O (input/output) integrity
637	Interrupt errors
621	Kernel
638	Latch-up
644	Liquid ingress
606	Magnetic interference
607	Medical diagnosis software
654	Memory access errors
629	Metastable state
608	Modem/communications
	failure
665	None
600	Other (code unspecified,
	describe in H10)
609	Poor image resolution
659	Power fluctuation
	<u> </u>
610	Power loss/surge related

Co	mputer-, Imaging System-,	
	Microprocessor-Controlled Device Problems	
	complication	
662	Power sequencing	
661	Power spike	
660	Power transient	
640	Power-up errors	
641	Radiation effects	
622	Real-time operating system	
639	Reset errors	
611	RF interference	
612	Safety interlock/feature	
	failure	
625	Sequence processing	
650	Shock	
636	Stack errors	
619	State machine	
651	Temperature fluctuation	
634	Timing violation	
620	Token	
632	Transmission effects	
613	User installation error	
614	User maintenance error	
624	Vector processing	
649	Vibration	
623	Watchdog	

RESULTS OF EVALUATION CODES	
	DEVICE
703	Alarms inadequate or absent
101	Component/subassembly
	failure (select specific code
	from Category D)
103	Computer hardware problem
104	Computer software problem
105	Computer/human interface
	problem
705	Controls, switches, keypads
	difficult to read or use
704	Critical information not
	displayed
110	Design (unspecified)
115	Design - maintenance
	difficult
112	Design - not fail safe
114	Design - operational context
111	Design - packaging
	deficiencies
113	Design - user interface
706	Device difficult to assemble
	or set up
708	Device performed according
	to specifications
702	Display hard to read or
	misleading
120	Electrical problem
	(unspecified)
122	Electrical problem - open
	circuit
123	Electrical problem -
	operating outside
	specifications
121	Electrical problem - short
	circuit
197	Electro-magnetic
	interference problem
198	Electro-static interference
133	End of life - expected
134	End of life - premature
138	Exceeded expected life of
	device
140	Expected wear/deterioration
141	Failure to cycle
142	Foreign material
	contamination
196	Inadequate optical
	transmission
143	Inadequate quality
L	assurance/control

RESULTS OF EVALUATION CODES DEVICE	
168	Instructions not available
144	Insulation
	degradation/deterioration
154	Labeling contains
	inadequate instructions for
	use/maintenance
157	Labeling contains incorrect
	instructions for
	use/maintenance
151	Labeling difficult to read/see
152	Labeling difficult to
	understand
153	Labeling does not provide
	necessary information
156	Labeling is incomplete
159	Labeling is not available
150	Labeling problems
	(unspecified)
145	Lubrication excessive
146	Lubrication insufficient
147	Lubrication, loss of
148	Lubrication, wrong SAE
1.10	(specifications)
149	Lubrication, wrong type
170	used - oil vs grease
170	Manufacturing
174	Manufacturing - materials
171	Manufacturing - packaging
172 173	Manufacturing - process
1/3	Manufacturing - quality
175	control Manufacturing - user
1/3	interface
135	Material
155	degradation/deterioration,
	anticipated or expected
137	Material
10.	degradation/deterioration,
	unanticipated or unexpected
136	Material problem - post
	production
180	Mechanical problem (i.e.
	pump, motor, wiring, cable,
	battery, parts, friction, etc.)
710	Negative results of device
	testing
709	None
707	Operating steps confusing
100	Other (code unspecified,
	describe in H10)
190	Out of specification
160	Package insert information

RESULTS	OF EVALUATION CODES
	DEVICE
	inadequate/incorrect
167	Package insert missing
162	Package labeling
	inadequate/incorrect
163	Package mislabeled
131	Premature power source
	depletion
132	Premature RRT indicator
	(recommended replacement
	time)
191	Quality assurance
164	Service manual (use in
	conjunction with another
	labeling code)
192	Shelf life exceeded
195	Sterilization
193	Storage/shipment
194	Telemetry failure
176	Tolerance stack-up
	(hardware/software)
165	User instruction manual (use
	in conjunction with another
	labeling code)
701	User/device interface

USE OF DEVICE	
201	Cleaning error
213	Device used according to
	labeled indications
214	Device used in appropriate
	environment
202	Device used with
	inappropriate material
215	Device used with
	incompatible equipment
203	Device used with
	incompatible
	medium/material
204	Disinfection error
205	Failure to follow
	instructions
206	Failure to remove packaging
	per use instructions
207	Failure to service/maintain
	according to manufacturer
	recommendations
208	Incorrect
	technique/procedure
209	Misapplication/misuse of
	device
223	Modification of device - by
	authorized service
	organization
225	Modification of device - by
	distributor
224	Modification of device - by
	other service organization
221	Modification of device - by
	user/user facility biomedical
	engineering department
220	Modification of device -
	unspecified
236	Negative results of device
	testing
235	None
200	Other (code unspecified,
	describe in H10)
230	Reuse of device -
	unspecified
232	Reuse of device beyond
	labeled specifications
708	Device performed according
	to specifications
702	Display hard to read or
	misleading
120	Electrical problem
	(unspecified)
122	Electrical problem - open
	(unspecified)

	USE OF DEVICE
	circuit
123	Electrical problem -
	operating outside
	specifications
121	Electrical problem - short
	circuit
197	Electro-magnetic
	interference problem
198	Electro-static interference
133	End of life - expected
134	End of life - premature
138	Exceeded expected life of
	device
140	Expected wear/deterioration
141	Failure to cycle
142	Foreign material
	contamination
196	Inadequate optical
	transmission
143	Inadequate quality
	assurance/control
102	Incompatible components
168	Instructions not available
144	Insulation
	degradation/deterioration
154	Labeling contains
	inadequate instructions for
	use/maintenance
157	Labeling contains incorrect
	instructions for
	use/maintenance
151	Labeling difficult to
	read/see
152	Labeling difficult to
	understand
153	Labeling does not provide
	necessary information
156	Labeling is incomplete
159	Labeling is not available
150	Labeling problems
	(unspecified)
145	Lubrication excessive
146	Lubrication insufficient
147	Lubrication, loss of
148	Lubrication, wrong SAE
	(specifications)
149	Lubrication, wrong type
	used - oil vs grease
170	Manufacturing
174	Manufacturing - materials
171	Manufacturing - packaging
172	Manufacturing - process
173	Manufacturing - quality
	·

USE OF DEVICE	
	control
175	Manufacturing - user
	interface
135	Material
	degradation/deterioration,
	anticipated or expected
137	Material
	degradation/deterioration,
	unanticipated of unexpected
136	Material problem - post
	production
180	Mechanical problem (i.e.
	pump, motor, wiring, cable,
	battery, parts, friction, etc.)
710	Negative results of device
	testing
709	None
707	Operating steps confusing
100	Other (code unspecified,
100	describe in H10)
190	Out of specification
160	Package insert information
4.5=	inadequate/incorrect
167	Package insert missing
162	Package labeling
162	inadequate/incorrect
163	Package mislabeled
131	Premature power source
122	depletion Premature RRT indicator
132	
	(recommended replacement time)
191	Quality assurance
164	Service manual (use in
104	conjunction with another
	labeling code)
192	Shelf life exceeded
195	Sterilization Sterilization
193	Storage/shipment
194	Telemetry failure
176	Tolerance stack-up
170	(hardware/software)
165	User instruction manual
	(use in conjunction with
	another labeling code)
701	User/device interface
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201 Cleaning error 213 Device used according to labeled indications 214 Device used in appropriate environment 202 Device used with inappropriate material 215 Device used with incompatible equipment 203 Device used with incompatible medium/material 204 Disinfection error 205 Failure to follow instructions 206 Failure to remove packaging per use instructions 207 Failure to service/maintain according to manufacturer recommendations 208 Incorrect technique/procedure 209 Misapplication/misuse of device 223 Modification of device - by authorized service organization 225 Modification of device - by distributor 224 Modification of device - by west-user facility biomedical engineering department 220 Modification of device - unspecified 236 Negative results of device testing 235 None 200 Other (code unspecified, describe in H10) 230 Reuse of device beyond labeled specifications 231 Reuse of disposable device 233 Reuse of single use device 231 Timing error 212 Unapproved use of device	I	USE OF DEVICE
Device used according to labeled indications		
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environment 202 Device used with inappropriate material 215 Device used with incompatible equipment 203 Device used with incompatible medium/material 204 Disinfection error 205 Failure to follow instructions 206 Failure to remove packaging per use instructions 207 Failure to service/maintain according to manufacturer recommendations 208 Incorrect technique/procedure 209 Misapplication/misuse of device 223 Modification of device - by authorized service organization 225 Modification of device - by distributor 224 Modification of device - by user/user facility biomedical engineering department 220 Modification of device - unspecified 236 Negative results of device testing 235 None 200 Other (code unspecified, describe in H10) 230 Reuse of device beyond labeled specifications 231 Reuse of disposable device 233 Reuse of single use device 211 Timing error	214	I .
202 Device used with inappropriate material 215 Device used with incompatible equipment 203 Device used with incompatible medium/material 204 Disinfection error 205 Failure to follow instructions 206 Failure to remove packaging per use instructions 207 Failure to service/maintain according to manufacturer recommendations 208 Incorrect technique/procedure 209 Misapplication/misuse of device 223 Modification of device - by authorized service organization 225 Modification of device - by distributor 224 Modification of device - by other service organization 221 Modification of device - by user/user facility biomedical engineering department 220 Modification of device - unspecified 236 Negative results of device testing 235 None 200 Other (code unspecified, describe in H10) 230 Reuse of device - unspecified 231 Reuse of device beyond labeled specifications 234 Reuse of device without following disinfection/sterilization instructions 231 Reuse of single use device 233 Reuse of single use device 211 Timing error	214	
inappropriate material Device used with incompatible equipment Device used with incompatible medium/material Disinfection error Failure to follow instructions Failure to remove packaging per use instructions Failure to service/maintain according to manufacturer recommendations Incorrect technique/procedure Misapplication/misuse of device Modification of device - by authorized service organization Modification of device - by distributor Modification of device - by other service organization Modification of device - by user/user facility biomedical engineering department Modification of device - unspecified Negative results of device testing None Other (code unspecified, describe in H10) Reuse of device - unspecified Reuse of device beyond labeled specifications Reuse of device without following disinfection/sterilization instructions Reuse of single use device Timing error	202	
203 Device used with incompatible equipment 203 Device used with incompatible medium/material 204 Disinfection error 205 Failure to follow instructions 206 Failure to remove packaging per use instructions 207 Failure to service/maintain according to manufacturer recommendations 208 Incorrect technique/procedure 209 Misapplication/misuse of device 223 Modification of device - by authorized service organization 225 Modification of device - by distributor 224 Modification of device - by other service organization 221 Modification of device - by user/user facility biomedical engineering department 220 Modification of device - unspecified 236 Negative results of device testing 235 None 200 Other (code unspecified, describe in H10) 230 Reuse of device - unspecified 232 Reuse of device beyond labeled specifications 234 Reuse of disposable device 233 Reuse of single use device 231 Reuse of single use device 233 Reuse of single use device	202	
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Device used with incompatible medium/material	213	
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233 Reuse of single use device 211 Timing error		
211 Timing error		•
Unapproved use of device		
	212	Unapproved use of device

DIMIGIOLO CASCALA	
PHYSIOLOGICAL / PROCEDURAL FACTORS	
311	Anticipated adverse reaction - long term
312	Anticipated adverse reaction
312	- short term
310	Anticipated or known
310	(physiological/ procedural
	related, but code
	unspecified)
321	Caused by another
	drug/device
323	Caused by magnetic field -
	MRI
324	Caused by metal -
	microwave
325	Caused by operational
	context
331	Environmental factors
332	High/low temperature or
212	humidity
313	Inherent risk of procedure
314	Known long term
315	complication of procedure Known short term
315	complication of procedure
346	Negative results of device
340	testing
345	None
300	Other (code unspecified,
	describe in H10)
333	Patient diagnosis
	contraindicated use of
	device
316	Patient's condition -
	predisposed event
317	Patient's condition affected
	effectiveness of device
318	Patient's condition
	contraindicated use of
222	device Related to another
322	drug/device
326	Related to operational
320	context
334	Support system problem
30 .	(e.g., facility oxygen flow
	system, electrical Failure of
	entire facility)
340	Unanticipated
340	(physiological / procedural
	related, but code
	unspecified)
341	Unanticipated adverse

	reaction - long term
342	Unanticipated adverse
	reaction - short term
343	Unanticipated long term
	complication of procedure
344	Unanticipated short term
	complication of procedure